Date	Schedule	Assignments
Feb 10	Syllabus Schedule Section 1A Excel Basics	<ul> <li>Go over Syllabus and HW schedule Lecture.</li> <li>Finish Stat Support Activity#1 – Excel Basics (copy,paste, highlighting and widening columns)</li> <li>Section 1A Lecture on categorical vs quantitative data and nominal vs ordinal categorical data.</li> <li>Textbook Problems 1A#1,2,3,4.</li> <li>Go over project#1. Choose project questions and population of interest.</li> <li>Homework: Finish Problems 1A. Read Syllabus. Choose Project questions and population.</li> </ul>
Feb 12	Section 1B & 1C	<ul> <li>Section 1B Lecture on methods of collecting data.</li> <li>Textbook Problems 1B#1-15 all.</li> <li>Section 1C Lecture on types of bias in data.</li> <li>Textbook Problems 1C#1-11 all.</li> <li>Homework: Finish 1B and 1C problems. Start collecting data and work on project#1.</li> </ul>
Feb 17	COC Holiday	Happy Presidents Day
Feb 19	Section 1D	<ul> <li>Excel Activity#2 typing project data, creating "Other" category and doing a "Custom Sort".</li> <li>Lecture on Experimental Design.</li> <li>Ruler Experiment Activity and Problems 1D#1-6</li> <li>Textbook Problems 1D#7-27.</li> <li>Homework: Finish 1D problems. Collect data for project. Work on project#1.</li> <li>February 23rd is the Last Day to Drop with a Refund and without a "W".</li> </ul>
Feb 24	Section 1E (part 1)	<ul> <li>Work on project#1.</li> <li>Stat Support Activity: Rounding (Lecture and #1-12)</li> <li>Stat Support Activity: %, Proportions, Scientific Notation (%-Proportion Lecture and #1-20)         (Scientific Notation Lecture and #21-32)</li> <li>Lecture: Frequencies, Total, Proportions, and Estimating Amounts. Textbook Problems 1E#3-10</li> <li>Homework: Finish Activity Problems and 1E#3-10. Collect data for project. Work on project#1.</li> </ul>
Feb 26	Section 1E (part 2)	<ul> <li>Percent of Increase: Lecture and Textbook Problems         1E#11,13,14,15</li> <li>Stat Support Activity Intro to StatKey: Lecture and         Problems#1&amp;2</li> <li>Stat Support Activity Categorical Graphs: Lecture and         Problems#1-4</li> <li>Binomial Probability: Lecture and Textbook Problems         1E#25,26,27,28,29</li> <li>Homework: Finish Activity Problems and 1E#11,13-15,25-29.         Collect data for project. Work on project#1.</li> </ul>
Mar 3	Sections 1F (part 1)	Stat Support Activity: Normal Quantitative Graphs. Lecture & Problems#1-3 Stat Support Activity: Mean Average. Lecture & Problems#1&2 Stat Support Activity: Standard Deviation. Lecture & Problem#1 all Homework: Finish Project#1! Finish Activity Problems and 1F#9-18

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Mar 5	Section 1F (part 2)	<ul> <li>Project#1 Due Today! Turn in printed spreadsheet with the two columns of custom sorted data you collected. Also turn in answers #1-15 from Project#1 directions.</li> <li>Z-score Lecture &amp; Problems 1F#9-15 all</li> <li>Normal Data Analysis Lecture &amp; Textbook Problems 1F#2,5,7,8 all</li> <li>Empirical Rule Lecture &amp; Textbook Problems 1F#19-21 all</li> <li>Normal Probabilities Lecture &amp; Textbook Problems 1F#23-25 all</li> <li>Homework: Finish Problems 1F. Work on project#2.</li> </ul>
Mar 10	Section 1G (part 1)	<ul> <li>www.matt-teachout.org. Pre-Stat Page.         Stat Support Activities</li> <li>Other Quantitative Shapes Lecture &amp; Activity#1-7 (Bear Data)</li> <li>Median Lecture &amp; Activity#1-4</li> <li>Quartiles/IQR Lecture &amp; Activity#1-3</li> <li>Box-Plot/Outliers Lecture &amp; Activity#1-3</li> <li>Homework: Finish Activity Problems. Work on project#2.</li> </ul>
Mar 12	Sections 1G (part 2) & 2A	<ul> <li>Skewed &amp; Non-normal Data Analysis Lecture.</li> <li>Statistics Page: Problems 1G#2,3,4 Data Sets Page: "Bear Data"</li> <li>Go over project#2</li> <li>Pre-Stat Page. Stat Support Activities: Other Quantitative Statistics Lecture and Activity#1-4.</li> <li>Statistics &amp; Parameters Lecture.</li> <li>Statistics Page: Problems 2A#2-12 all</li> <li>Homework: Finish 1G, 2A, Other Stats Activity problems, Work on Project#2</li> </ul>
Mar 17	Sections 2B & 2C	<ul> <li>Work on project#2.</li> <li>Sampling Distribution Lecture.</li> <li>Coin Sampling Distribution Activity (Part 1) #1-12</li> <li>Coin Sampling Distribution Activity (Part 2) #13-17</li> <li>Coffee Sampling Distribution Activity (Part 1) #1-11. Data Sets Page: "Sampling Distribution Data 1 Coffee"</li> <li>Coffee Sampling Distribution Activity (Part 2) #12-16. Data Sets Page: "Coffee Data"</li> <li>Central Limit Theorem Lecture.</li> <li>Problems 2C#1-7,9,10,17,18.</li> <li>Homework: Finish Sampling Distribution Activities &amp; 2C Problems. Work on project#2.</li> </ul>
Mar 19	Section 2D	<ul> <li>Confidence Interval Lecture.</li> <li>Problems 2D#1-10.</li> <li>Back solving for Sample Statistic and Margin of Error Lecture and Problems 2D#11-20 (parts a &amp; b only).</li> <li>Understanding "Confidence Levels" Lecture and Problems 2D#21-32.</li> <li>Homework: Finish Problems 2D. Work on project#2.</li> </ul>
Mar 24	Section 2E (part 1)	<ul> <li>Critical Value Z-scores StatKey Activity#1-3</li> <li>One-population Proportion Confidence Interval Calculations and Conditions Lecture.</li> <li>Problems 2E#1,4-9.</li> <li>William Gossett's Student T Distribution Lecture</li> <li>Critical Value T-scores StatKey Activity#1-4</li> <li>Affective Domain#1 Activity (Growth Mindset): Ted Talk and problems#1-6</li> <li>Homework: Finish Activities &amp; 2E Problems.</li> <li>Work on Project#2.</li> </ul>

		Population Mean Average Confidence Interval
		Calculations and Conditions Lecture.
		<ul> <li>Textbook Problems 2E#2,12-19.</li> </ul>
		Lecture: One-Population Mean and Proportion Bootstrap
Mar 26		Confidence Interval Lecture.
		Lecture: Bootstrap vs Sampling Distributions
	Sections	Textbook Problems 2E#3,20-27.
	2E (part 2)	Homework: Finish project#2 and problems 2E.
		Project#2 Due Today! Turn in printed StatKey graphs and
		summary stats, and answers to all questions.
		Stat Support Activity: Differences #1-6
		<ul> <li>Lecture: Negatives and Positives on the number line.</li> </ul>
		Lecture: Two-Population Confidence Interval Interpretations
Mar 31		and Textbook Problems 2F#4-12.
10101 51		Calculations for two-population proportion confidence
		intervals Lecture and Stat Support Activity: Two-population
		proportion confidence interval calculations #1-2
		Stat Support Activity: Two-population degrees of freedom
	Section	and T-scores #1-3
	2F (part 1)	Homework: Finish Activities & 2F Problems.
		Lecture & Stat Support Activity: Two-population Mean
		Confidence Interval Calculations#1-2
		Lecture & Stat Support Activity: Matched Pair Two-
		population Mean Confidence Interval Calculations#1-3
Apr 2		Lecture: Two-population confidence intervals conditions and
		Problems 2F#13,15,16,18
		Two-population Bootstrapping Lecture and Problems
	Section	2F#14,17,19,20
	2F (part 2)	Finish Activity and 2F problems. Work on Project#3
Apr 7		Catch up on missing work,
Apr 9	Spring Break	projects, and assignments. Work on Project#3.
		Lecture & Stat Support Activity: Inequality Symbols &  Paralletica Parameters #4.13 all
		Population Parameters #1-12 all.
A 1.4		<ul> <li>Lecture 3A: Ho, Ha, Claim, Type of Test</li> <li>Problems 3A#1-20 all.</li> </ul>
Apr 14		
	Castian	
	Section	
	3A & 3B (part 1)	Finish Activity, 3A, & 3B problems. Work on Project#3
		Stat Support Activity: Significance Levels#1-8 (Includes
		drawing distributions and labeling critical values & test
		statistics)
		Section 3B Lecture: Using StatKey and Significance level to
Apr 16		Calculate Critical Values & Textbook problems 3B#21-29 all.
		Section 3B Lecture: One-Population Test Stat Sentences and
		Calculations & Textbook problems 3B#30-35 all.
	Section	Grit Affective Domain Activity Video & #1-6
	3B (part 2)	Finish Activities & 3B problems. Work on Project#3
		Introduction to P-value & Problems 3C#1-20 all.
Apr 21		P-value in Hypothesis Test Example Lecture & Problems
		3C#33-36 all.
		StatKey Theoretical Distribution P-value Calculations Lecture
		& Problems 3C#38-44 all.
		Support Activity: Drawing P-value, Significance Level, Test
	Section	Statistic and Critical Value on same distribution (#1-10 all)
•	3C	<ul> <li>Finish 3C and Activity Problems. Work on Project#3</li> </ul>

		a 2D Locture: Conclusions
		3D Lecture: Conclusions     Conclusion Support Activity #4 9 9 People and 3D#47 33
Anr 22		Conclusion Support Activity#1-8 & Problems 3D#17-23.  35 Lecture: Type 1 and Type 2 Frees.
Apr 23	Castiana	3E Lecture: Type 1 and Type 2 Errors.  Similar to who all much large 35/41 45, 47.  The state of the sta
	Sections 3D & 3E	<ul> <li>Finish textbook problems 3E#1-15,17.</li> <li>Finish project#3! Finish Activities, 3D &amp; 3E problems</li> </ul>
	3D & 3E	Finish project#3! Finish Activities, 3D & 3E problems
		Project#3 Due Today!
		Lecture 3F: One-Population Proportion Z-Test.
		Problems 3F#1,4-7 and
		Support Activity: One-Population Test Statistics #1-3.
Apr 28		Lecture Section 3F One-Population Mean T-Test.
		<ul> <li>Problems 3F#2,8-11 and</li> </ul>
		Support Activity: One-Population Test Statistics #4-6
		Lecture 3F: Hypothesis Test Steps and
		Problems 3F#12,14,16,18,19,21
	Section 3F	Homework: Finish Support Activity and Problems 3F
		<ul> <li>Lecture Section 4B: Intro to ANOVA, Ho, Ha, Conditions</li> </ul>
		Stat Support Activity: ANOVA and F-test statistic
		Calculations#1-3
Apr 30		• Finish problems 4B#1-5,11-15,22-24
		Lecture and Problems Section 4B#25,27,29,30
	Section	HW: Finish Activity Problems, Finish 4B problems,
	4B	and start on project#4.
		Lecture 4A: Two-Population Mean Hypothesis Test for  Independent Crause and Metabolic Pair
		Independent Groups and Matched Pair.
		Stat Support Activity: 2-population T-test statistic     Calculations (Undated Version) #1.4
		Calculations (Updated Version) #1-4  • Problems 4A (Updated Version) #1-6, 11-16, 23-25
May 5		<ul> <li>Problems 4A (opdated Version) #1-0, 11-10, 23-23</li> <li>Problems 4A (Updated Version) #26,28,31,32</li> </ul>
liviay 5		HW: Finish Activity Problems, Finish 4A problems, and work
		on project#4.
		This Saturday May 10th is the last day to drop. You will
	Section	receive a "W" on record. Your instructor may drop you from
	4A	the class if you are failing or have many absences.
		a Lastura 4C. Two non proportion llungthesis test
		Lecture 4C: Two-pop. proportion Hypothesis test.     Stat Support Activity: Two-pop. 7 test statistic Calculations
May 7		<ul> <li>Stat Support Activity: Two-pop. Z-test statistic Calculations (Updated Version) #1-3</li> </ul>
		<ul> <li>Problems 4C (Updated Version) #1-6, 11-16, 21-23</li> </ul>
		<ul> <li>Problems 4C (Updated Version) #24,26,29,30,31ab</li> </ul>
		HW: Finish Activity Problems, Finish 4C problems,
		and work on project#4.
		This Saturday May 10th is the last day to drop. You will
	Section	receive a "W" on record. Your instructor may drop you from
	4C	the class if you are failing or have many absences.
		Lastina ADi Caadraaa of 5th Tasta
		Lecture 4D: Goodness of Fit Tests     Problems 4D (Undeted Version) #31, 36, 37, 30, 30, 33
		Problems 4D (Updated Version) #21-26,27,29,30,33     Locture 4E: Contingency Table Marginal Proportions
May 12		Lecture 4E: Contingency Table Marginal Proportions     Problems 45#2 4 11 12 19 20 27 29
		Problems 4E#3,4,11,12,19,20,27,28     Locture 4E: Contingency Table Intersection Propertiess
		<ul> <li>Lecture 4E: Contingency Table Intersection Proportions</li> <li>Problems 4E#5,6,13,14,21,22,29,30</li> </ul>
	Section	Homework: Finish problems 4D & 4E. Work on project#4.
	Section 4D & 4E (Part 1)	Finish and turn in make-up work.
	4D & 4E (rdil 1)	rinish and turn in make-up work.

May 14	Sections 4E (part 2) & 4F	<ul> <li>Finish Project#4!</li> <li>Lecture 4E: Contingency Table Union Proportions</li> <li>Problems 4E#7,8,15,16,23,24,31,32</li> <li>Lecture 4E: Contingency Table Conditional Proportions</li> <li>Problems 4E#1,2,9,10,25,26,33,34</li> <li>Lecture 4F: Intro Categorical Association Test</li> <li>Problems 4F (Updated Version) #23-27,28,31,33,34</li> <li>Work on project#4. Finish Problems 4E &amp; 4F. Finish and turn in make-up work.</li> </ul>
May 19	Section 4G (part1)	<ul> <li>Project#4 Due Today!</li> <li>Lecture 4G: Explanatory &amp; Response variables, Scatterplots, Correlation Coefficient (r), coefficient of determination (r²).</li> <li>Stat Support Correlation Coefficient Activity#1-11</li> <li>Lecture: Regression lines, slope, y-intercept, definitions</li> <li>Stat Support Regression Line Activity#1-8</li> <li>Problems 4G#1,2,3,5,6</li> <li>Finish problems 4G, and Stat Support Activities.         Finish and turn in make-up work.</li> </ul>
May 21	Sections 4G (part 2) & 4H	<ul> <li>Lecture 4G: Predictions, Extrapolation, Residuals, Standard Deviation of the Residual Errors (se)</li> <li>Problems 4G#4,7,8,10,11</li> <li>Finish problems 4G, and Stat Support Activities. Finish and turn in make-up work.</li> <li>Lecture 4H: Correlation Test Ho, Ha, T-test stat, Critical Values, P-value, Residual Plots, Correlation Test Conditions</li> <li>Correlation Test Activity#1,2,3,6,7,14</li> <li>Problems 4H#21-27</li> <li>Finish 4G and 4H problems. Finish and turn in make-up work.</li> </ul>
May 26	COC Holiday	Happy Memorial Day
May 28	Final Review Ch. 1&2	<ul> <li>Section 1A-1D Review Lecture.</li> <li>Ch1 Review Sheet #1,2bdgh,4,5</li> <li>Section 1E-1G Review Lecture.</li> <li>Ch1 Review Sheet #7abc,8,9,12abc,14-18</li> <li>Ch2 Review Lecture. Ch2 Review Sheet#1(n,p,p̂,μ,x̄,r,s), 9(sampling distribution, standard error), 10abefgh, 11,12,15.</li> <li>Homework: Finish Ch1 &amp; Ch2 Review Sheet problems.</li> <li>Study for Final Exam! Finish and turn in make-up work.</li> </ul>
June 2	Final Review Ch. 3&4	<ul> <li>Review Lecture Ch3&amp;4</li> <li>Ch 3 Review Sheet#3-6,7ab,11,14</li> <li>Ch4 Review Sheet#1-17 all</li> <li>Study for Final Exam! Finish and turn in make-up work.</li> </ul>
June 4	Cumulative Final Exam	Last day to turn in make-up work!!     Math 140 is over! Have a great winter break!